Homeland Security
An Overview

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Homeland Security Science and Technology Advisory Committee
27 September 2012
Outline

1. DHS Overview
   - Missions & Goals
   - Organization
   - Interagency Process
   - Congressional Oversight

2. Defining Homeland Security

3. Anatomy of National Response & Preparedness

4. Key Challenges
   - Optimizing for Extreme & Diverse Range of Threats
   - Managing Risk & Enhancing Resilience
   - Integrating Key Functions, Unifying the Enterprise
DHS Overview
DHS Facts

• Creation of DHS in 2004 constituted most significant government reorganization since the National Security Act of 1947
• DHS constitutes the most diverse merger of federal functions and responsibilities, incorporating 22 government agencies into a single organization.
• With over 200,000 employees, DHS is third largest federal agency

<table>
<thead>
<tr>
<th>Dept</th>
<th>FY2012 Enacted</th>
<th>FY2013 Request</th>
<th>FY2013 Req % of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHS</td>
<td>35,214.7</td>
<td>35,533.7</td>
<td>51.57%</td>
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<tr>
<td>Total</td>
<td>67,988.0</td>
<td>68,905.2</td>
<td>100%</td>
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2010 QHSR Missions & Goals

1. Preventing & Protecting Against Terrorism
   - Goal 1: Prevent Terrorism
   - Goal 2: Prevent Unauthorized Acquisition or Use of CBRN Materials & Capabilities
   - Goal 3: Manage Risks to Critical Infrastructure

2. Securing & Managing Our Borders
   - Goal 1: Effectively Control U.S. Air, Land, and Sea Borders while expediting safe flow of travel & commerce
   - Goal 2: Safeguard Lawful Trade and Travel: Ensure security and resilience of global movement systems.
   - Goal 3: Disrupt Criminal Organizations: Disrupt & dismantle transnational smuggling & trafficking across US border

3. Enforcing & Administering Our Immigration Laws
   - Goal 1: Strengthen and Effectively Administer the Immigration System
   - Goal 2: Prevent Unlawful Immigration: Reduce conditions encouraging illegal entry in US, while removing illegals

4. Safeguarding & Securing Cyberspace
   - Goal 1: Create a Safe Cyber Environment: Malicious actors are unable to impair safe & secure use of cyberspace

5. Ensuring Resilience to Disasters
   - Goal 1: Mitigate Hazards: Strengthen capacity at all levels of society to withstand threats and hazards
   - Goal 2: Enhance Preparedness: Engage all levels and segments of society in improving preparedness.
   - Goal 3: Ensure Effective Emergency Response capacity Nationwide.
   - Goal 4: Rapidly Recover: Improve the Nation’s ability to adapt and rapidly recover

Maturing & Strengthening the Homeland Security Enterprise
   - Ensure Real-Time Shared Awareness
   - Build Capable Communities
   - Foster Unity of Effort
   - Foster Innovative Approaches & Solutions Through Leading-Edge S&T
Interagency Process

White House -- NSS Policymaking Structure

President

Principals Committee (PC)

Deputies Committee (DC)

Interagency Policy Committees (IPCs)

DHS  State  OSD  JCS  ODNI  DOJ  Treas  DOE  HHS  AG  HHS  EPA
Interagency Homeland Security
Players and Connections:
Congressional Oversight of DHS

Source: DHS Office Of Legislative Affairs
Defining Homeland Security
Defining Homeland Security
# Homeland Security Definitions

<table>
<thead>
<tr>
<th>Document</th>
<th>Definition</th>
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<tbody>
<tr>
<td>2007 <em>National Strategy for Homeland Security</em> (White House)</td>
<td>A concerted national effort to prevent terrorist attacks within the United States, reduce America's vulnerability to terrorism, and minimize the damage and recover from attacks that do occur.³</td>
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<tr>
<td>2008 <em>U.S. Department of Homeland Security Strategic Plan, Fiscal Years 2008-2013</em> (DHS)</td>
<td>A unified national effort to prevent and deter terrorist attacks, protect and respond to hazards, and to secure the national borders.⁴</td>
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<tr>
<td>2010 <em>National Security Strategy</em> (White House)</td>
<td>A seamless coordination among federal, state, and local governments to prevent, protect against and respond to threats and natural disasters.⁵</td>
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<tr>
<td>2010 <em>Quadrennial Homeland Security Review</em> (DHS)</td>
<td>A concerted national effort to ensure a homeland that is safe, secure, and resilient against terrorism and other hazards where American interests, aspirations, and ways of life can thrive.⁶</td>
</tr>
<tr>
<td>2010 <em>Bottom-Up Review</em> (DHS)</td>
<td>Preventing terrorism, responding to and recovering from natural disasters, customs enforcement and collection of customs revenue, administration of legal immigration services, safety and stewardship of the Nation’s waterways and marine transportation system, as well as other legacy missions of the various components of DHS.⁷</td>
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<td>2011 <em>National Strategy For Counterterrorism</em> (White House)</td>
<td>Defensive efforts to counter terrorist threats.⁸</td>
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<tr>
<td>2012 <em>Strategic Plan</em> (DHS)</td>
<td>Efforts to ensure a homeland that is safe, secure, and resilient against terrorism and other hazards.⁸</td>
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Anatomy of National Response and Preparedness
Tiered Nature of National Response

Federal Response

Local Emergency Management

Other Federal Agencies

EMAC

State Emergency Management

First Responders
Tiered Nature of National Response

First Responders

Local Emergency Management

State Emergency Management

EMAC

Federal Response

Other Federal Agencies

Federal

Agencies
## Federal Emergency Support Functions

### ESF COORDINATING, PRIMARY, AND SUPPORT DESIGNATIONS

<table>
<thead>
<tr>
<th>Agency</th>
<th>#1 - Transportation</th>
<th>#2 - Communications</th>
<th>#3 - Public Works and Engineering</th>
<th>#4 - Firefighting</th>
<th>#5 - Emergency Management</th>
<th>#6 - Mass Care, Emergency Assistance, and Human Services</th>
<th>#7 - Logistics and Resource Support</th>
<th>#8 - Public Health and Medical Services</th>
<th>#9 - Search and Rescue</th>
<th>#10 - Oil and Hazardous Materials Response</th>
<th>#11 - Agriculture and Natural Resources</th>
<th>#12 - Energy</th>
<th>#13 - Public Safety and Security</th>
<th>#14 - Long-Term Community Recovery</th>
<th>#15 - External Affairs</th>
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National Preparedness

PPD-8 Functions

PREVENT

PROTECT

MITIGATE

RESPOND

RECOVER
National Preparedness

*PPD-8 Functions*

PREVENT

PROJECT

MITIGATE

RESPOND

RECOVER

Risk Management

Resilience
Key Challenges

- Optimizing for Extreme & Diverse Range of Threats
  - Managing Risk & Enhancing Resilience
- Integrating Key Functions, Unifying the Enterprise
Missions with Widest Threat Spectrums

- Preventing & Protecting Against Terrorism
- Securing & Managing Our Borders
- Enforcing & Administering Our Immigration Laws
- Safeguarding & Securing Cyberspace
- Ensuring Resilience to Disasters
- Maturing & Strengthening the Homeland Security Enterprise
Probability & Consequence

Event Severity Spectrum

- Routine Mission Performance, Accidents, Crime
- RDD
- Cat 4-5 Hurricane
- Cyber
- Nuclear
- Large Scale Biological

Greater Likelihood

Higher Consequence
Probability & Consequence

Event Severity Spectrum

- Cat 4-5 Hurricane
- High Impact Cyber
- Nuclear / Large Scale Biological

Performance, Greater Routine Accident Event Severity Spectrum Probability & Consequence
Systems Optimization

Capabilities & Plans Utility Spectrum
Systems Optimization

Capabilities & Plans Utility Spectrum
Systems Optimization

Capabilities & Plans Utility Spectrum
Systems Optimization
Capabilities & Plans Utility Spectrum
Threat Chain Systems View

Case A: Stovepiped Approach

Terrorist Attack Phases

Intent
INITIAL PLANNING/TARGET SELECTION
OPERATIONAL LOGISTICS/RESOURCES
CONDUCT OPERATIONS

Immediate Effects

Global War on Terrorism

Long-Term Effects

Layered Security Actions

Global War on Terrorism
Collect and Share Intelligence
Investigate and Disrupt Plots
Identify Suspicious Behavior
Reduce Site Vulnerabilities
EXplosive Device Response Operations
Incident Response
Post-Blast Investigation and Analysis
Conseq. Manag.

Respond

Protect

Detect

Prevent

DETER

ATTACK
Threat Chain Systems View
Case B: Enterprise Systems Approach

Layered Security Actions

- **INTENT**
- **INITIAL PLANNING/TARGET SELECTION**
- **OPERATIONAL LOGISTICS/RESOURCES**
- **CONDUCT OPERATIONS**
- **ATTACK**
- **IMMEDIATE EFFECTS**
- **LONG-TERM EFFECTS**

**DETER**

**PREVENT**

**DETECT**

**PROTECT**

**RESPOND**

- **GLOBAL WAR ON TERRORISM**
- **COLLECT AND SHARE INTELLIGENCE**
- **INVESTIGATE AND DISRUPT PLOTS**
- **IDENTIFY SUSPICIOUS BEHAVIOR**
- **REDUCE SITE VULNERABILITIES**
- **EXPLOSIVE DEVICE RESPONSE OPERATIONS**
- **INCIDENT RESPONSE**
- **POST-BLAST INVESTIGATION AND ANALYSIS**
- **Conseq. Manag.**
The Need for Enhanced Integration

Strategy / Strategic Direction
What mission outcome are we trying to accomplish?

Capabilities & Prioritization
What capabilities are required to achieve the mission, and which is the best alternative?

Resource Allocation and Budget Formulation
What investments should be funded and budgeted?

Program Monitoring
How do we plan, execute, & monitor investments?
The Latest Technology Is Not Always the Best Solution
Questions?